

a11

- (d) (Ser/Tyr/Cys/Trp/Thr/Asn/Lys/Arg)-(Val/Pro)-(Lys/Ala)-(Ser/Ala)-(Tyr/Phe) (SEQ ID NO: 42);
- (e) Lys-Asn-Phe-Phe-Asn-Tyr (SEQ ID NO: 5).

In the claims:

1. (Amended) An enzyme comprising cellulolytic activity comprising an amino acid sequence comprising an amino acid string selected from the group consisting of one or more of the following:

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- (a) Asn-Asn-(Leu/Phe/Lys/Ile)-Trp-Gly (SEQ ID NO: 1)
- (b) Glu-(Leu/Phe/Ile)-Met-Ile-Trp (SEQ ID NO: 2)
- (c) Gly-Thr-Glu-Pro-Phe-Thr; (SEQ ID NO: 3)
- (d) (Ser/Tyr/Cys/Trp/Thr/Asn/Lys/Arg)-(Val/Pro)-(Lys/Ala)-(Ser/Ala)-(Tyr/Phe); (SEQ ID NO: 42) and
- (e) Lys-Asn-Phe-Phe-Asn-Tyr (SEQ ID NO: 5)

or a derivative of said enzyme.

18. (Amended) A method for obtaining a gene encoding an EGIII like cellulase comprising the steps of

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- (a) preparing genomic DNA from an organism of interest;
- (b) preparing a DNA primer encoding an amino acid string selected from the group consisting of one or more of the following:

- (a) Asn-Asn-(Leu/Phe/Lys/Ile)-Trp-Gly (SEQ ID NO: 1)
- (b) Glu-(Leu/Phe/Ile)-Met-Ile-Trp (SEQ ID NO: 2)
- (c) Gly-Thr-Glu-Pro-Phe-Thr (SEQ ID NO: 2);
- (d) (Ser/Tyr/Cys/Trp/Thr/Asn/Lys/Arg)-(Val/Pro)-(Lys/Ala)-(Ser/Ala)-(Tyr/Phe) (SEQ ID NO: 42); and
- (e) Lys-Asn-Phe-Phe-Asn-Tyr (SEQ ID NO: 5).

- (c) mixing said genomic DNA from step (a) and said DNA primer from step (b) under conditions suitable for the identification of all or part of a gene fragment in said genomic DNA corresponding to said DNA primer; and

a13 (d) isolating said all or part of said gene corresponding to said fragment from said genomic DNA.

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